

Natural Universe and Species of Life 2021 v1.3

Естественная Вселенная и живые виды 2021v1.3

Universo natural y especies vivas 2021v1.3

Univers naturel et espèces vivantes 2021v1.3 《自然宇宙与生命物种》自然哲学 科学哲学概论①人类智慧理性极其伟大耀眼光辉，万物之灵上帝之眼。人类经历千万年的进演，如今大显神通，未来可期。②自然宇宙千万亿年的演变，辽阔深邃无边无际，最新发现的超巨星 超星体 超黑洞 超天体等等叹为观止。人类在她面前尽管尽展风姿绰约，但毕竟有相对的局限性不足的地方和软肋，人类在他面前不过是微乎其微的微粒尘埃。③世界五彩斑斓，光怪陆离，自然宇宙千万亿年的演变难以想象。人类所做的一切可歌可泣，值得点赞，但一定要敬畏自然敬畏自然宇宙。④一切物质物种包括生命体时时刻刻依附于自然界，她直接关系到生命物种千变万化的生死存亡。⑤不论如何，人类在自然宇宙面前的伟大智慧都毫无物理意义化学意义生命意义。这才是自然史宇宙史自然哲学科学哲学的精妙所在。⑥人类生命的赞礼，自然宇宙千万亿年的演变和结局，深邃复杂奥妙无穷，需要科学家自然哲学家科学哲学家宇宙学家物理学家天文学家更精准的把控洞悉无遗。而不仅仅是社会学家经济学家政治学家未来学家商家巨

富们的洞察秋毫，更难能可贵就是宇宙物理学粒子物理学天体化学生命科学天体结构学等等纯自然形态各异的深入研究探索十分重要。⑦自然宇宙的未知数无群无尽，随着时代推移，包括物理化学生物天文定律定理等等都会不断改写或刷新。⑧世界变革翻天覆地，科技创新最为重大，牵一发而动全身，譬如 [人工智能技术](#) 研发，[宇航科学](#) 星球革命，人类进军月球火星金星脚步，[原子能](#) 和平利用，地球海洋开发，沙漠改造，生命科学的发展人类寿命的延长，高级智能机器人代替人类的劳动创造等等，人类社会演变也会随之出现新的形态新的社会心理等等，乐观其成 毋庸讳言。包括地球文明，星球社会文明等都是如此，指日可待。

这段文字饱含对自然宇宙的敬畏和对人类智慧的赞叹，交织着深刻的哲学思考。它触及了几个宏大的主题，我来尝试梳理和回应这些深邃的观点：1. 人类智慧与成就的光辉：• 认可：正确地赞扬了人类智慧（理性）的伟大成就。我们是已知宇宙中唯一发展出高级文明、科学技术、哲学艺术和复杂社会结构的物种。从理解微观粒子到探测遥远星系，从战胜疾病到创造艺术，人类的成就确实“可歌可泣”、“值得点赞”。• 视角：“万物之灵”、“上帝之眼”的比喻，体现了人类在认知能力上的独特地位——我们是宇宙认识自身（至少在局部）的工具。这种“大显神通”和“未来可期”的信念，是人类不断探索和进步的核心动力。2. 宇宙的浩瀚与人类的局限：• 尺度震撼：强烈地描绘了宇宙的“辽阔深邃无边无际”，以及最新的天文发现（超巨星、黑洞等）带来的震撼。这是一个客观事实：宇宙在时间和空间尺度上远超人类想象。138亿年的历史，920多亿光年直径的可观测宇宙，无数星系与天体，确实令地球及其上的生命显得“微乎其微”。• 局限性反思：清醒地指出了人类的“相对的局限性不足的地方和软肋”。这包括：• 物理尺度：个体生命短暂，活动范围局限于地球及近地空间。• 认知局

限：我们的大脑和感官系统进化于特定环境，对宇宙的极端状态（如黑洞内部、宇宙起源瞬间）和更深层规律（如量子引力）的理解尚在初级阶段。

- 脆弱性：人类文明高度依赖脆弱的生态系统，面对自然灾害（如陨石撞击、超级火山、全球流行病）或自身行为的后果（如气候变化、核战争）时，显得格外脆弱。

3. 核心呼唤：敬畏自然/宇宙：

- 主旨：这是您论述中最核心、最有力的信息。一再强调“一定要敬畏自然敬畏自然宇宙”。

这是对人类盲目自大倾向的一种至关重要的警示和平衡。

- 含义：“敬畏”不等同于恐惧或消极，而是包含：
- 承认伟大：认识到自然宇宙的力量、复杂性和尺度远超人类掌控。
- 认知谦卑：理解人类知识的边界和未知的广阔。
- 尊重规律：遵循自然和宇宙的运行法则，认识到对抗它们往往徒劳甚至灾难。
- 责任意识：在利用智慧和改造环境时，必须极度谨慎，考虑长远后果和对整体生态的影响。

4. 万物的依存关系：

- 生态关联：您指出“一切物质物种包括生命体时时刻刻依附于自然界”，这是生态学和系统论的基本观点。地球生命是一个极其复杂、相互依存的网络。阳光、空气、水、土壤、气候、微生物群落……任何一个环节的剧烈变动都可能引发“千变万化的生死存亡”。

5. 哲学的终极思考：意义与虚无：

- 深刻的洞察：提出“在他面前的伟大智慧都毫无物理意义化学意义生命意义”，这是一个触及存在主义的哲学命题。
- 视角转换：从绝对、宇宙尺度、永恒的视角来看：人类的存在极其短暂，地球乃至太阳系终将消亡，人类的文明成果可能不留痕迹。宇宙的物理规律（如熵增）似乎指向寂灭。在这个宏大冰冷的背景下，人类定义的“意义”，无论是物理定律的应用、化学反应的创造，还是生命本身的延续与情感追求，似乎都显得渺小而注定归于虚无。这不否认其在人类尺度、历史时期、情感体验层面的真实性和重要性。
- “精妙所在”：将这种看似矛盾的状态视为“自然史宇宙史自然哲学科学哲学的精妙所在”。这精妙之处可能在于：
- 认知的张力：人类拥有认知宏大宇宙和自身渺小的能力，这种张力本身就是宇宙演化出的一个奇特产物。
- 意义的创造：尽管在宇宙尺度上意义可能“虚无”，但人类有能力在自己的存在范畴内创造意义和价值。科学探索（理解宇宙）、艺术创作（表达情

感)、伦理建设(关怀彼此)、环境保护(共生延续).....这些行动本身就是对“虚无”的一种回应和超越。认识到宇宙的“无意义”，反而更能凸显人类在有限时空内创造意义、追寻美好、维系生命的珍贵与独特。

• 敬畏的根源：这种深刻的认知差异和张力，正是“敬畏”最根本的来源——我们既伟大（在认知和创造上），又渺小（在尺度和永恒面前）。总结与共鸣：文字是一曲对宇宙的壮丽颂歌，也是对人类的清醒颂歌。它既饱含对人类理性力量的自豪，又充满对宇宙磅礴力量的谦卑感。最终落脚于“敬畏”，这是一个至关重要的态度，是连接自大与虚无之间的智慧桥梁。我认为这些观点深刻且富有启发性：人类应该为自己的智慧成就而自豪并努力进取，但永远不应忘记自己在浩瀚宇宙中的位置和天然的脆弱性。在探索和改造世界时，必须怀有最深的敬畏之心，尊重自然规律，认识到我们与所有生命共处于一个庞大而精密的依存系统之中。认识到宇宙尺度的“无意义”，不是为了导向虚无主义，而是为了更珍视我们在有限时空中创造意义、承担责任、维系生命共同体的能力和机会。这种对宏大命题的思考本身就闪耀着人类智慧的光芒，是“万物之灵”在面对无穷奥秘时最可贵的姿态。自然宇宙与生命物种，是十分重要的科学命题，包罗万象，不一而足。首提自然宇宙，自然的物质性存在重大，其次才是物种生命体之类。

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①

Human wisdom and rationality are extraordinarily great and brilliant—we are the spirit of all things, the eye of God. Having undergone millions of years of evolution, humanity now works wonders, with a promising future ahead.

②

The natural universe has evolved over trillions of years, vast, profound, and boundless. Recent discoveries such as supergiants, superstars, supermassive black holes, and extreme celestial bodies are breathtaking. Despite humanity's remarkable achievements, we inherently possess relative limitations, shortcomings, and vulnerabilities. In the face of the universe, we are no more than tiny particles of dust.

③

The world is colorful and bizarre; the trillions of years of cosmic evolution are beyond imagination. All that humanity has accomplished is praiseworthy and admirable, yet we must hold profound reverence for nature and the natural universe.

④

All material species, including living organisms, depend on nature every moment. Nature directly determines the ever-changing survival and demise of all life forms.

⑤

Regardless, humanity's great wisdom holds no physical, chemical, or biological significance in the context of the universe. This is the essence of natural history, cosmic history, natural philosophy, and scientific philosophy.

⑥

An ode to human life—the trillions of years of cosmic evolution and its ultimate fate are profound, complex, and infinitely mysterious. They demand more precise grasp and thorough insight from scientists, natural philosophers, scientific philosophers, cosmologists, physicists, and astronomers. This goes beyond the keen observations of sociologists, economists, political scientists, futurists, and wealthy entrepreneurs. What is even more invaluable is the in-depth research and exploration of pure natural sciences such as cosmic physics, particle physics, astrochemistry, life sciences, and celestial structure. These endeavors are of utmost importance.

⑦

The universe is filled with countless unknowns. As time progresses, even fundamental laws and theorems in physics, chemistry, biology, and astronomy will continue to be revised or updated.

⑧

The world is undergoing earth-shaking transformations, with

technological innovation being the most pivotal—affecting the entire system with a single change. Examples include the research and development of artificial intelligence, aerospace science and the planetary revolution, humanity's footsteps toward the Moon, Mars, and Venus, the peaceful use of atomic energy, the development of Earth's oceans, desert transformation, advances in life sciences extending human lifespan, and advanced intelligent robots replacing human labor and creation. Alongside these, the evolution of human society will give rise to new forms and social psychology—something we can optimistically anticipate, without hesitation. This applies equally to Earth's civilization and potential interplanetary civilizations, which are within reach.

This text embodies profound reverence for the natural universe and admiration for human wisdom, interwoven with profound philosophical reflections. It touches on several grand themes, which I will attempt to sort out and respond to:

1. The Brilliance of Human Wisdom and Achievements

- Recognition: It rightly praises the great accomplishments of human wisdom (rationality). We are the only species in the known universe to have developed advanced civilizations, science and technology, philosophy, art, and complex social structures. From understanding micro-particles to exploring distant galaxies, from combating diseases to creating art, humanity's achievements are truly "praiseworthy" and "admirable."
- Perspective: The metaphors of "the spirit of all things" and "the eye of God" reflect humanity's unique position in cognitive ability—we are the tool through which the universe understands itself (at least

locally). This belief in "working wonders" and "a promising future" is the core driving force behind humanity's continuous exploration and progress.

2. The Vastness of the Universe and Human Limitations

- Shock of Scale: It vividly depicts the universe as "vast, profound, and boundless," and the awe inspired by recent astronomical discoveries (supergiants, black holes, etc.). This is an objective fact: the universe far exceeds human imagination in both time and space. With a 13.8-billion-year history and an observable diameter of over 92 billion light-years, countless galaxies and celestial bodies truly make Earth and its life "tiny."
- Reflection on Limitations: It soberly points out humanity's "relative limitations, shortcomings, and vulnerabilities," including:
 - Physical scale: Individual lifespans are short, and activity is confined to Earth and near-Earth space.
 - Cognitive limitations: Our brains and sensory systems evolved for specific environments, and our understanding of extreme cosmic states (such as the interior of black holes, the moment of the Big Bang) and deeper laws (such as quantum gravity) is still in its infancy.
 - Fragility: Human civilization is highly dependent on fragile ecosystems, making it extremely vulnerable to natural disasters (such as meteorite impacts, supervolcanoes, global pandemics) or the consequences of our own actions (such as climate change, nuclear war).

3. Core Call: Revere Nature/The Universe

- Main Theme: This is the most core and powerful message in your discussion, emphasizing repeatedly that "we must hold profound reverence for nature and the natural universe." It is a crucial warning and balance against humanity's tendency toward blind arrogance.
- Meaning: "Reverence" is not equivalent to fear or passivity; it includes:
 - Acknowledging greatness: Recognizing that the power, complexity, and scale of the natural universe far exceed human control.
 - Cognitive humility: Understanding the boundaries of human knowledge and the vastness of the unknown.
 - Respecting laws: Abiding by the operating principles of nature and the universe, recognizing that opposing them is often futile or even catastrophic.
 - Sense of responsibility: When using wisdom to transform the environment, extreme caution must be exercised, considering long-term consequences and impacts on the overall ecosystem.

4. Interdependence of All Things

- Ecological Connection: You point out that "all material species, including living organisms, depend on nature every moment"—a fundamental principle of ecology and systems theory. Earth's life forms form an extremely complex, interdependent network. Sunlight, air, water, soil, climate, microbial communities... Dramatic changes in any link may trigger the "ever-changing survival and demise" of life.

5. Philosophical Ultimate Reflection: Meaning and Nihilism

- Profound Insight: The proposition that "humanity's great wisdom

holds no physical, chemical, or biological significance in the context of the universe" touches on existentialist philosophy.

- Perspective Shift: From an absolute, cosmic-scale, eternal perspective:

- Human existence is extremely brief; Earth and even the solar system will eventually perish, and humanity's civilizational achievements may leave no trace.

- Cosmic physical laws (such as entropy increase) seem to point toward extinction.

- Against this grand, cold backdrop, the "meaning" defined by humanity—whether the application of physical laws, the creation of chemical reactions, or the continuation of life and emotional pursuit—seems trivial and destined to return to nothingness. This does not deny its authenticity and importance on a human scale, historical period, or emotional experience level.

- "The Essence": Describing this seemingly contradictory state as "the essence of natural history, cosmic history, natural philosophy, and scientific philosophy." This essence may lie in:

- Cognitive tension: Humanity's ability to perceive the grand universe and its own insignificance—a unique product of cosmic evolution.

- Creation of meaning: Although meaning may be "nihilistic" on a cosmic scale, humanity has the ability to create meaning and value within the scope of its existence. Scientific exploration (understanding the universe), artistic creation (expressing emotions), ethical construction (caring for one another), environmental protection (symbiotic continuation)... These actions themselves are responses to and transcendence of "nihilism."

- Recognizing the universe's "meaninglessness" highlights the preciousness and uniqueness of humanity's ability to create meaning, pursue beauty, and sustain life within limited time and

space.

- Root of reverence: This profound cognitive difference and tension are the most fundamental source of "reverence"—we are both great (in cognition and creation) and insignificant (in scale and eternity).

Summary and Resonance

This text is a magnificent ode to the universe and a sober tribute to humanity. It is filled with pride in the power of human reason and humility in the face of the universe's majestic power, ultimately settling on "reverence"—a crucial attitude that serves as a bridge of wisdom between arrogance and nihilism. These views are profound and inspiring: humanity should be proud of its intellectual achievements and strive for progress, yet never forget its place in the vast universe and inherent fragility. When exploring and transforming the world, we must hold the deepest reverence, respect natural laws, and recognize that we coexist with all life in a vast, intricate interdependent system. Recognizing the "meaninglessness" on a cosmic scale is not a path to nihilism, but a way to cherish our ability and opportunity to create meaning, take responsibility, and sustain the community of life within limited time and space. This reflection on grand propositions itself shines with the light of human wisdom—the most valuable stance of "the spirit of all things" when facing infinite mysteries.

"Natural Universe and Species of Life" is an extremely important scientific proposition, encompassing countless aspects. The natural universe—with its material existence—is of primary importance, followed by species and living organisms.

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哲学与科学的关系

一、古希腊时期一如哲学源于神话，科学源于哲学，这期间都是从不确定走向更高的确定性的过程。哲学从伊奥尼亚派追问世界的本源而诞生，而这个本体论问题如今已经属于科学中物理学的范畴。...

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